

Title (en)

Flow measuring device and method for galvanically separate measurement of flows

Title (de)

Strommesseinrichtung und Verfahren zur galvanisch getrennten Messung von Strömen

Title (fr)

Dispositif de mesure de flux et procédé de mesure galvanique séparée de flux

Publication

EP 2116855 A3 20131225 (DE)

Application

EP 09157865 A 20090414

Priority

AT 6142008 A 20080417

Abstract (en)

[origin: EP2116855A2] The device (1) has a receiving part (2) made of a material with high magnetic permeability. Hall-sensors (3) are arranged on a side of the receiving part for measuring of magnetic fields orientated orthogonal to the receiving part. An evaluation unit (5) evaluates a measurement signal (It) of the sensors for determining of current to be measured. An insulator (4) and a shield device are arranged at the receiving part for surrounding of the sensors. The shield device extends from the side of the receiving part to the sensors. Independent claims are also included for the following: (1) an arrangement including a conductor and/or conductor piece arranged between a current measuring device and a covering device (2) a method for galvanically separate measurement of current (3) an insulator comprising an insulation body in a current measuring device.

IPC 8 full level

G01R 15/20 (2006.01); **G01R 33/025** (2006.01)

CPC (source: AT EP)

G01R 15/20 (2013.01 - AT); **G01R 15/207** (2013.01 - AT EP); **G01R 33/02** (2013.01 - AT); **G01R 33/09** (2013.01 - AT); **G01R 33/025** (2013.01 - EP)

Citation (search report)

- [X] US 2006033487 A1 20060216 - NAGANO SHUICHI [JP], et al
- [X] EP 0772046 A2 19970507 - SENTRON AG [CH]
- [X] WO 2005073744 A1 20050811 - XENSOR INTEGRATION B V [NL], et al
- [X] US 2007200564 A1 20070830 - MOTZ MARIO [AT], et al
- [I] EP 1182461 A2 20020227 - SENTRON AG [CH]
- [I] EP 1811311 A1 20070725 - MELEXIS TECHNOLOGIES SA [CH]
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CN113196439A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2116855 A2 20091111; **EP 2116855 A3 20131225**; **EP 2116855 B1 20150610**; AT 506682 A1 20091115; AT 506682 B1 20140515

DOCDB simple family (application)

EP 09157865 A 20090414; AT 6142008 A 20080417